

```

graph TD
    A[SAMPLE MATERIALS] -- "(A) SAMPLE PREPARATION" --> B[PREPARE SAMPLES]
    B -- "(B) SAMPLE POSITIONING" --> C[SAMPLES ON SUBSTRATE]
    C -- "(C) SAMPLE STIMULATION" --> D[RESPONDING SAMPLES]
    D -- "(D) RESPONSE MONITORING" --> E[MONITOR SAMPLES]
    E -- "(E) PROPERTY DETERMINATION" --> F[CHARACTERIZE SAMPLES]
    B -- "SAMPLING" --> F
    C -- "SAMPLING" --> F
    D -- "SAMPLING" --> F
    E -- "SAMPLING" --> F
  
```

The flowchart illustrates a five-step process for sample preparation and monitoring. It begins with 'SAMPLE MATERIALS', followed by 'PREPARE SAMPLES', 'SAMPLES ON SUBSTRATE', 'RESPONDING SAMPLES', and 'MONITOR SAMPLES'. The final step is 'CHARACTERIZE SAMPLES'. The process is labeled 'SAMPLING' on the right side. Arrows indicate the flow between steps, with labels (A) through (E) corresponding to each transition.

FIG. 1

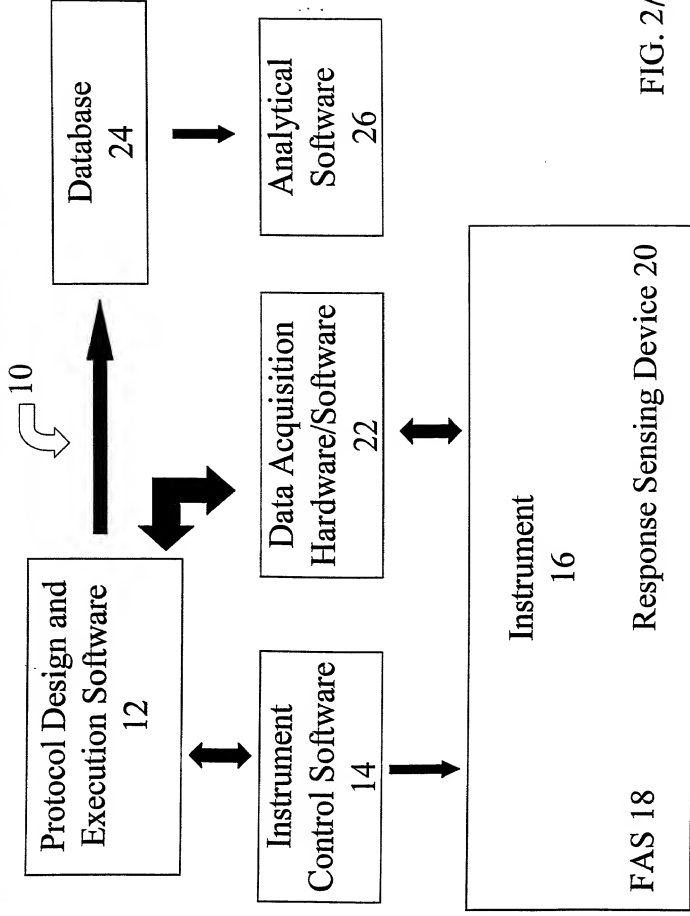


FIG. 2A

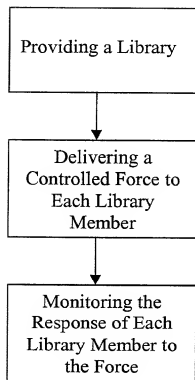
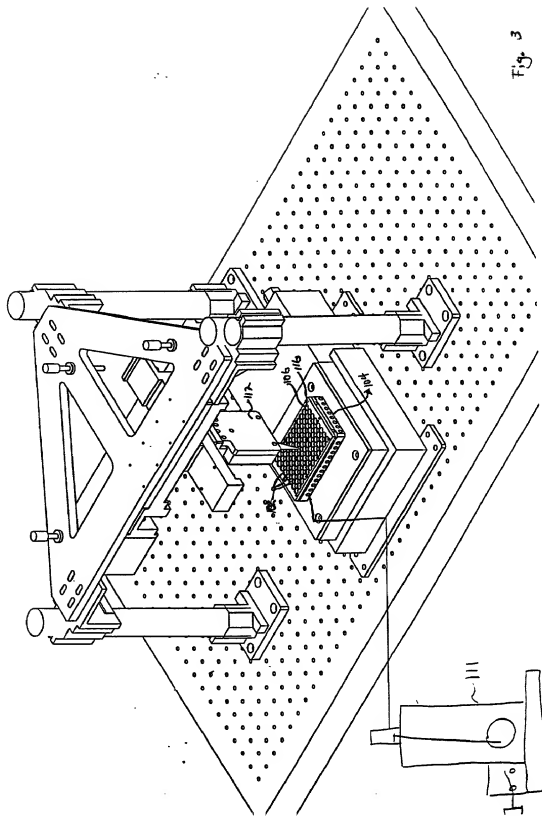


FIG. 2B



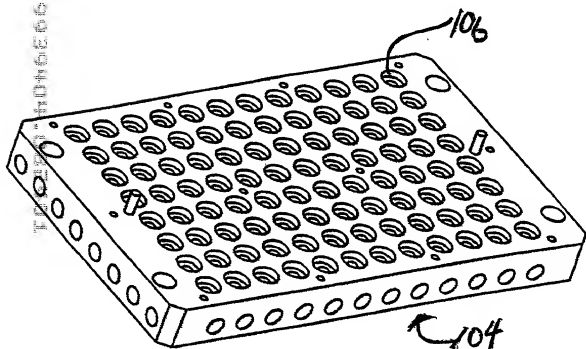
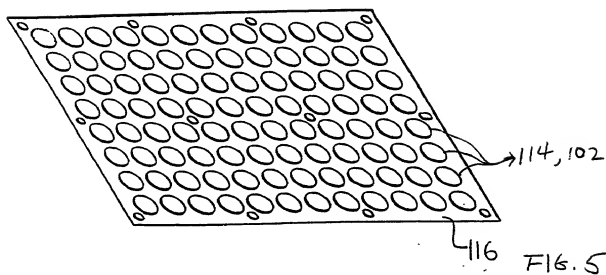


Fig. 4

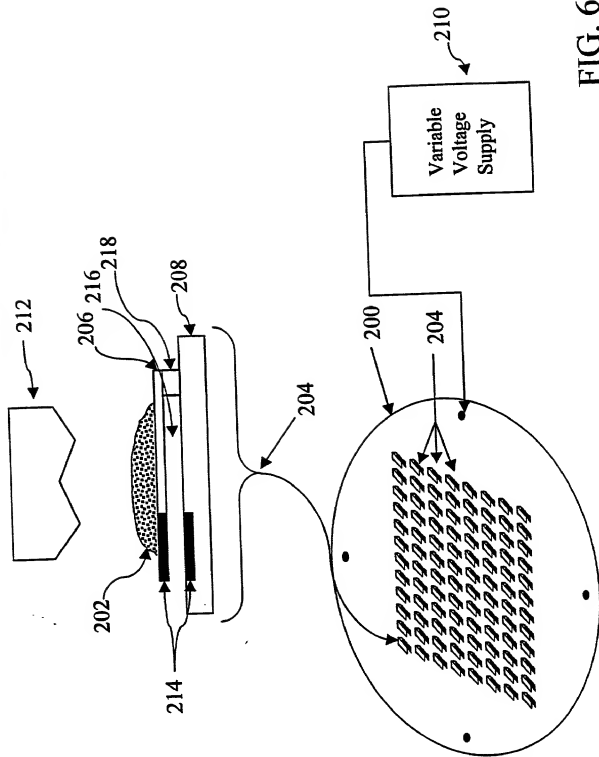


FIG. 6

304

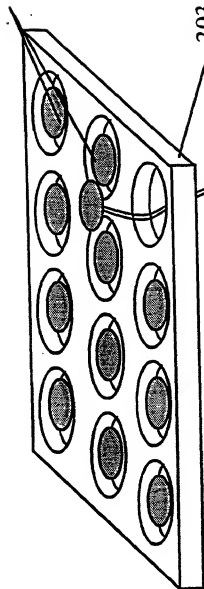
303

308

~312

Variable  
Voltage  
Supply

FIG. 7



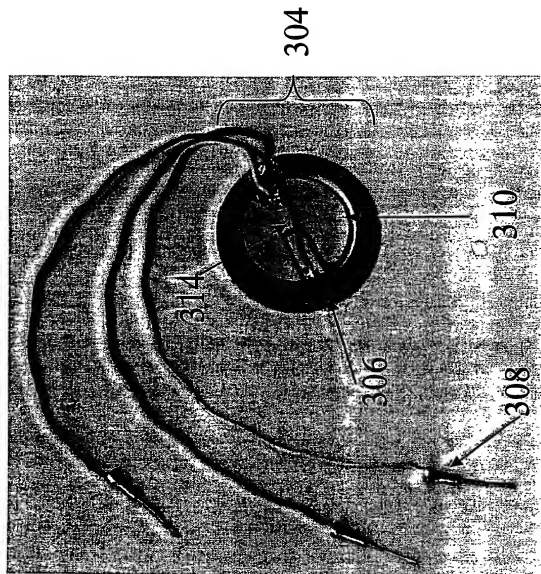


FIG. 8



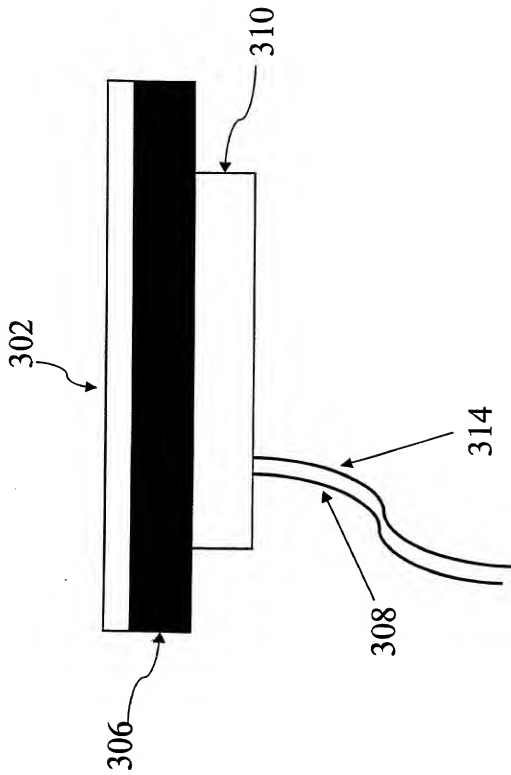

304 

FIG. 9

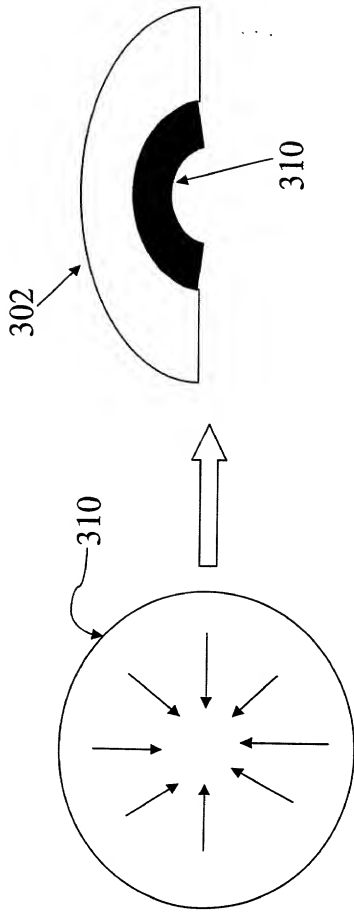


FIG. 10

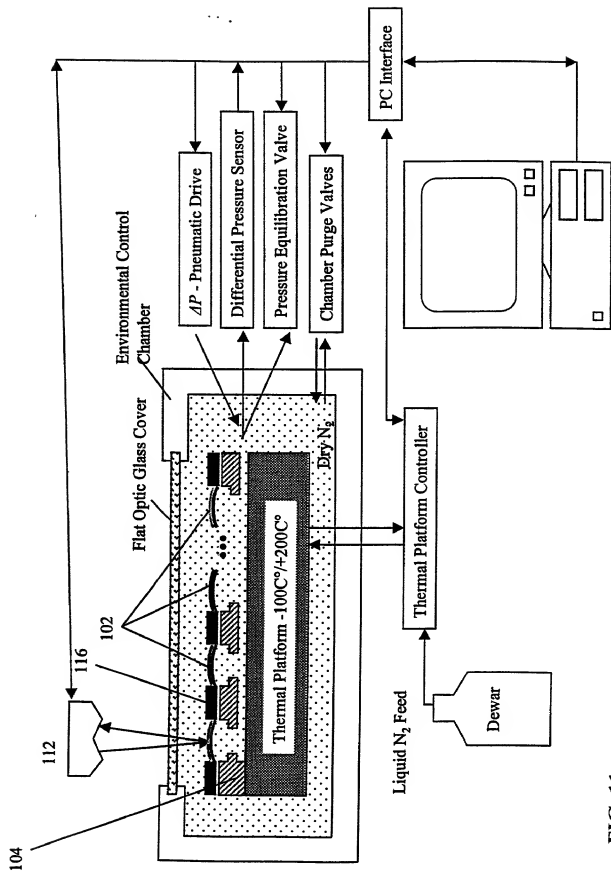


FIG. 11